Case 2697

Streptograptus Yin, 1937 (Graptolithina): proposed designation of *Graptolithus plumosus* Baily, 1871 as the type species

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Abstract. The purpose of this application is the designation of *Graptolithus plumosus* Baily, 1871 as the type species of the Silurian graptolite nominal genus *Streptograptus* Yin, 1937; the original type material had been misidentified as *Monograptus nodifer* Törnquist, 1881. The proposed designation is in accordance with usage of the last 50 years.

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1. Baily (1871, pp. 22–23, figs. 1a–c) described a new species of monograptid, *Graptolithus plumosus*, from the Llandovery of Northern Ireland. Loydell (1990) has redescribed Baily's material and shown it to have come from strata of lower Telychian (Upper Llandovery) *Monograptus turriculatus* Biozone age. Loydell (1990, pl. 1, fig. 4, and text-fig. 1) illustrated as neotype of Baily's species a specimen housed in the Ulster Museum, numbered BELUM: K12274d [in the text on p. 938 this specimen number was misprinted as BELUM: K12275a]. Specimen BELUM: K12274d is herein confirmed as neotype of *Graptolithus plumosus* Baily, 1871.

2. Törnquist (1881, pp. 436–437, pl. 17, figs. 2a–c) described *Monograptus nodifer* sp. nov. from the 'retiolitesskiffern' of Nitsjö, Dalarne, Sweden. These strata are of upper Telychian (Upper Llandovery) *Monograptus spiralis* Biozone age.

3. Elles & Wood (1913, pp. 454–456, pl. 46, figs. 2a–d, text-fig. 313b non a, c, d) wrongly identified specimens of *Monograptus plumosus* as *M. nodifer*. Their specimens were from the Aberystwyth Grits of Cefn Hendre Quarry, Aberystwyth, and are of *Monograptus turriculatus* Biozone age. *Monograptus nodifer* Törnquist has never been recorded from strata of *M. turriculatus* Biozone age, whereas *M. plumosus* is confined to the *turriculatus* Biozone.

4. Yin (1937, p. 297) established the genus *Streptograptus* and designated *Monograptus nodifer* as type species. His specimens, which have now been lost, were from beds near Shihtien, Yunnan, China, which yielded *M. turriculatus* and were not *M. nodifer* sensu stricto. Chen is cited in Loydell (1990, p. 941) as stating that 'in China all references to *M. nodifer* are sensu Elles & Wood and not sensu Törnquist'. This is confirmed by Loydell's examination of Chinese graptolite literature, e.g. Mu et al. (1962, pp. 119–120, pl. 32, figs. 1–6), Wang et al. (1977, pp. 364–365, pl. 112, fig. 6) and

Chen (1984, pp. 71–72, pl. 16, figs. 8, 13, non 5). Chen (1986) described specimens of *M. plumosus* which had been chemically isolated and showed that their thecal structure was very different from that of *M. nodifer* sensu Törnquist as illustrated by Rickards, Hutt & Berry (1977, p. 67, text-fig. 32). *M. nodifer* sensu Törnquist has not yet been identified from China.

5. The genus *Streptograptus* has been widely used in continental Europe, in the U.S.S.R. and in China for monograptids with a thecal form similar to that of *M. plumosus* as illustrated by Chen (1986). Loydell (1990, pp. 940–941) described in detail the history of this genus. He pointed out that 'as Yin clearly based his generic diagnosis for *Streptograptus* on *Monograptus plumosus* and not on *Monograptus nodifer* s.s., *G[raptolithus] plumosus* should be made the type species of the genus *Streptograptus* Yin, 1937...'.

6. The International Commission on Zoological Nomenclature is accordingly asked:

(1) to use its plenary powers to set aside all prior designations of the type species for the nominal genus *Streptograptus* Yin, 1937 and to designate *Graptolithus plumosus* Baily, 1871 as the type species;

(2) to place on the Official List of Generic Names in Zoology the name *Streptograptus* Yin, 1937 (gender: masculine), type species by designation in (1) above *Graptolithus plumosus* Baily, 1871;

(3) to place on the Official List of Specific Names in Zoology the name *plumosus* Baily, 1871, as published in the binomen *Graptolithus plumosus* (specific name of the type species of *Streptograptus* Yin, 1937).

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